



The Genome Decoration Page from NCBI

A tool to create publication quality graphics for chromosomes with custom annotations
<https://www.ncbi.nlm.nih.gov/genome/tools/gdp/>

National Center for Biotechnology Information • National Library of Medicine • National Institutes of Health • Department of Health and Human Services

Scope and Access

The Genome Decoration Page (GDP) is a service that allows users to upload their own annotation data and create publication quality graphic showing on the ideogram of the chromosomes. Annotation can be shown as a track, or set of tracks, along the ideogram. Alternatively, an annotation track can be shown as an ideogram 'Overlay' on top of the chromosome representation. This service currently supports the decoration of certain builds of human and mouse genomes.



GDP is accessible on the web at:

<https://www.ncbi.nlm.nih.gov/genome/tools/gdp/>

The help documentation is online at:

<https://www.ncbi.nlm.nih.gov/genome/tools/gdp/help>

Answers to Frequently Asked Questions are at:

<https://www.ncbi.nlm.nih.gov/genome/tools/gdp/faq>

The GDP Start Page

The start page of GDP (shown below) consists of an input section to the left (**A**) and a set of simplified instructions (**B**) on how to use this service to the right. The input section consists of a "Genome Information" (**C**) subsection for selecting a target genome, a "Layout" (**D**) subsection for ideogram size and orientation, and an "Annotations" (**E**) subsection for uploading data for different tracks. The "Overlay" (**F**) option is for uploading data to create a track that is displayed directly on top of the ideogram. GDP supports close over two dozen model organisms. Requests to add additional genomes can be submitted through the "Support Center" link at the lower right (not shown).

Basic Controls

Controls in the “Genome Information” and “Layout” (A) determine the genome and basic layout. With a target genome selected, clicking the “Refresh” (B) button in the right panel generates a basic layout of the genome (C) when custom data is not provided. You can download this image in various formats (D).

An Example Result

The “Annotations” control (E) allows upload of custom data files for different tracks. Clicking the “Refresh” button generates the decorated ideogram with the uploaded tracks (F). The service will display warning messages (G) if it detects issues in the uploaded file. In this case, it is an issue with unrecognized comment line that can be ignored. Clicking “Download” (H) brings out a dialog box to allow file size and name customization before download.

Example files used to generate the above image are available online:

https://ftp.ncbi.nlm.nih.gov/pub/factsheets/GDP_SNPList.bed

https://ftp.ncbi.nlm.nih.gov/pub/factsheets/GDP_GeneList.gff

https://ftp.ncbi.nlm.nih.gov/pub/factsheets/GDP_CytoBand.txt

Feedback

Please address questions, comments, and bug report to: info@ncbi.nlm.nih.gov

Contact: info@ncbi.nlm.nih.gov

NCBI Handout Series | GDP | Last Update September 8, 2016